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| <p>1 Abstract tasks: a tool for the inspection of Web sites and off-line hypermedia
 F. Garzotto , M. Matera , P. Paolini
 Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots February 1999</p> <p>2 Contributed articles: Genetic subtyping using cluster analysis
 Tom Burr , James R. Gattiker , Greggory S. LaBerge
 ACM SIGKDD Explorations Newsletter July 2001
 Volume 3 Issue 1
 In this paper we (1) describe state-of-the-art methods to identify clusters in DNA sequence data for taxonomic analysis; (2) describe a new method with better scaling properties based on model-based clustering, and (3) present examples using the nucleoprotein and hemagglutinin regions of influenza and the <i>env</i> and <i>gag</i> regions of human immunodeficiency virus (HIV).</p> <p>3 Image-based modeling and rendering: Interactive 3D modeling using only one image
 Sujin Liu , Zhiyong Huang
 Proceedings of the ACM symposium on Virtual reality software and technology October 2000
 For virtual reality systems, modeling of 3D objects and scenes is important and challenging. In this paper, we present an image-based interactive 3D modeling framework consisting of three major modules: photogrammetric modeling, human interaction, and texture mapping. These three modules are not sequentially used and they are mixed in the whole modeling process. The major idea is to explore the use of images in interactive modeling systems to achieve the automation. In particular, the use of onl ...</p> <p>4 Multiple maxima of likelihood in phylogenetic trees: an analytic approach
 Benny Chor , Michael D. Hendy , Barbara R. Holland , David Penny
 Proceedings of the fourth annual international conference on Computational molecular biology April 2000
 Maximum likelihood (ML) is a widely used criterion for selecting optimal evolutionary trees. However, little is known on the nature of the likelihood surface for trees, especially as to the frequency of multiple optima. We initiate an analytic study for identifying sequences that generate multiple optima. We report a new approach to calculating ML directly, which we have used to find large families of sequences that have multiple optima, including sequences with a continuum of optimal points. ...</p> <p>5 Performance Analysis of Cache Memories
 Gururaj S. Rao
 Journal of the ACM (JACM) July 1978
 Volume 25 Issue 3</p> <p>6 Monte Carlo sequence alignment
 Gary A. Churchill
 Proceedings of the first annual international conference on Computational molecular biology January 1997</p> <p>7 The model-assisted global query system for multiple databases in distributed enterprises
 Waiman Cheung , Cheng Hsu</p> | 80%
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 **ACM Transactions on Information Systems (TOIS) October 1996**
Volume 14 Issue 4

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

8 Bounding errors introduced by clustering of customers in closed product-form queuing networks

77%

 William C. Cheng , Richard R. Muntz**Journal of the ACM (JACM)** July 1996

Volume 43 Issue 4

Product-form queuing network models have been widely used to model systems with shared resources such as computer systems (both centralized and distributed), communication networks, and flexible manufacturing systems. Closed multichain product-form networks are inherently more difficult to analyze than open networks, due to the effect of normalization. Results in workload characterization for closed networks in the literature are often for networks having special structures and only specifi ...

9 Thermodynamics of computation and information distance

77%

 Charles H. Bennett , Péter Gács , Ming Li , Paul M. B. Vitányi , Wojciech H. Zurek**Proceedings of the twenty-fifth annual ACM symposium on Theory of computing** June 1993

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| 1 CTL model checking based on forward state traversal
Hiroaki Iwashita , Tsuneo Nakata , Fumiyasu Hirose
Proceedings of the 1996 IEEE/ACM international conference on Computer-aided design January 1997 | 94% |
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C. Pixley , S.-W. Jeong , G. D. Hachtel
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Gianpiero Cabodi , P. Camurati , Stefano Quer
Proceedings of the conference on European design automation conference September 1994 | 90% |
| 4 A deterministic linear time algorithm for geometric separators and its applications
David Eppstein , Gary L. Miller , Shang-Hua Teng
Proceedings of the ninth annual symposium on Computational geometry July 1993
We give a deterministic linear time algorithm for finding a small cost sphere separator of a k-ply neighborhood system &Fgr; in any fixed dimension, where a k-ply neighborhood system in R^d is a collection of n balls such that no points in the space is covered by more than k | 88% |
| 5 Improved non-approximability results
Mihir Bellare , Madhu Sudan
Proceedings of the twenty-sixth annual ACM symposium on Theory of computing May 1994 | 87% |
| 6 Static inference of properties of applicative programs
Prateek Mishra , Robert M. Keller
Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages January 1984
An applicative program denotes a function mapping values from some domain to some range. Abstract interpretation of applicative programs involves using the standard denotation to describe an abstract function from a "simplified" domain to a "simplified" range, such that computation of the abstract function is effective and yields some information, such as type information, about the standard denotation. We develop a general framework for a restricted ... | 85% |
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N. Asokan , Matthias Schunter , Michael Waidner
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K. Periyasamy , C. Mathew
Proceedings of the 1996 ACM 24th annual conference on Computer science February 1996 | 85% |

- 9** EFTS related file recovery and integrity problems 84%
 Jack Dugger
Proceedings of the sixth data communications symposium November 1979
 Because of the vast sums involved in Electronic Funds Transfer, the techniques used to recover messages and files must be exceptionally reliable. There is a movement today in EFTS from special purpose, custom built operating systems to more general purpose operating systems with the intent of obtaining greater versatility (higher level languages, data base methodology, etc.) The drawback is that the general purpose recovery systems are usually insufficient, and their code may no longer be a ...
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Proceedings of the 1996 international symposium on Symbolic and algebraic computation October 1996
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 F. Annexstein
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 Dennis F. Cudia , Wilson E. Singletary
Journal of the ACM (JACM) October 1968
 Volume 15 Issue 4
 The following theorem is a refinement of an unsolvability result due to E. Post: For any recursively enumerable degree D of recursive unsolvability there is a recursive class of sequences (of the same length) of nonempty words on an alphabet A such that the Post correspondence decision problem for that class is of degree D. This theorem is proved and then applied to obtain degree analogues of the ambiguity problem and the common ...
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 S. D. Brookes , C. A. R. Hoare , A. W. Roscoe
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Proceedings of European design automation conference with EURO-VHDL '95 on EURO-DAC '95 with EURO-VHDL '95 December 1995
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 U. Feige , A. Shamir
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 Gershon Elber , Elaine Cohen
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- 21** Computable process 77%
 Yiannis N. Moschovakis
Proceedings of the 17th ACM SIGPLAN-SIGACT symposium on Principles of programming languages December 1989
 In this paper we study concurrent, asynchronous processes and functions on them which can be programmed using the (full) unfair or the fair merge operations. The main result is a normal form theorem for these (relatively) "computable process functions" which implies that although they can be very complex when viewed as classical set-functions, they are all "loosely implementable" in the sense of Park [7]. We also announce a variation and a substantial strengthening o ...
- 22** Event-based debugging of object/action programs 77%
 Chu-Chung Lin , Richard J. LeBlanc
ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN and SIGOPS workshop on Parallel and distributed debugging November 1988
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- 23** Using smoothness to achieve parallelism 77%
 Leonard Adleman , Kireeti Kompella
Proceedings of the twentieth annual ACM symposium on Theory of computing January 1988
- 24** Local constraints in the syntax and semantics of programming languages 77%
 Aravind K. Joshi , Leon S. Levy , Kang Yueh
Proceedings of the 5th ACM SIGACT-SIGPLAN symposium on Principles of programming languages January 1978
 The method of local constraints attempts to describe context-free languages in an apparently context-sensitive form which helps to retain the intuitive insights about the grammatical structure. This form of description, while apparently context-sensitive is, in fact, context-free and allows a program derivation structure to be represented as a tree with additional constraints, thus allowing for the possibility of a correctness proof in the form of Knuthian semantics. A part of ALGOL 60 syntax ha ...
- 25** Graph Structures 77%
 John L. Pfaltz
Journal of the ACM (JACM) July 1972
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- 26** Addressable Data Graphs 77%
 Arnold L. Rosenberg
Journal of the ACM (JACM) April 1972
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- 27** A fixpoint semantics for nondeterministic data flow 77%
 John Staples , V. L. Nguyen

-  **Journal of the ACM (JACM) April 1985**
Volume 32 Issue 2
Criteria for adequacy of a data flow semantics are discussed and Kahn's successful semantics for functional (deterministic) data flow is reviewed. Problems arising from nondeterminism are introduced and the paper's approach to overcoming them is introduced. The approach is based on generalizing the notion of input-output relation, essentially to a partially ordered multiset of input-output histories. The Brock-Ackerman anomalies concerning the input-output relation model of nondeterministic ...
- 28 Maximal empty ellipsoids** 77%
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Proceedings of the 4th ACM conference on Computer and communications security April 1997
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Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems May 1997
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Proceedings of the IEEE/ACM international conference on Computer-aided design November 1993
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ACM Computing Surveys (CSUR) March 1997
Volume 29 Issue 1
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 **K. Hering , R. Haupt , Th. Villmann**
ACM SIGSIM Simulation Digest , Proceedings of the tenth workshop on Parallel and distributed simulation July 1996
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 **Hugues Hoppe , Tony DeRose , Tom Duchamp , John McDonald , Werner Stuetzle**
Proceedings of the 20th annual conference on Computer graphics and interactive techniques September 1993
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- 38 Functional composition algorithms via blossoming** 77%
 **Tony D. DeRose , Ronald N. Goldman , Hans Hagen , Stephen Mann**
ACM Transactions on Graphics (TOG) April 1993
Volume 12 Issue 2
In view of the fundamental role that functional composition plays in mathematics, it is not surprising that a variety of problems in geometric modeling can be viewed as instances of the following composition problem: given representations for two functions F and G , compute a representation of the function $H = F \circ G$. We examine this problem in detail for the case when F and G are given in ei ...
- 39 Searching for primitive roots in finite fields** 77%
 **V. Shoup**
Proceedings of the twenty-second annual ACM symposium on Theory of computing April 1990

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| <p>1 Formal property verification by abstraction refinement with formal, simulation and hybrid engines</p> <p> Dong Wang , Pei-Hsin Jiang , James Kukula , Yunshan Zhu , Tony Ma , Robert Damiano
Proceedings of the 38th conference on Design automation June 2001
We present RFN, a formal property verification tool based on abstraction refinement. Abstraction refinement is a strategy for property verification. It iteratively refines an abstract model to better approximate the behavior of the original design in the hope that the abstract model alone will provide enough evidence to prove or disprove the property. However, previous work on abstraction refinement was only demonstrated on designs with up to 500 registers. We developed RFN to ver ...</p> | 88% |
| <p>2 EFTS related file recovery and integrity problems</p> <p> Jack Dugger
Proceedings of the sixth data communications symposium November 1979
Because of the vast sums involved in Electronic Funds Transfer, the techniques used to recover messages and files must be exceptionally reliable. There is a movement today in EFTS from special purpose, custom built operating systems to more general purpose operating systems with the intent of obtaining greater versatility (higher level languages, data base methodology, etc.) The drawback is that the general purpose recovery systems are usually insufficient, and their code may no longer be a ...</p> | 85% |
| <p>3 Improving efficiency of symbolic model checking for state-based system requirements</p> <p> William Chan , Richard J. Anderson , Paul Beame , David Notkin
ACM SIGSOFT Software Engineering Notes , Proceedings of ACM SIGSOFT international symposium on Software testing and analysis March 1998
Volume 23 Issue 2</p> | 84% |
| <p>4 Modification operations in data base machines: where are they?</p> <p> A. R. Hurson , L. L. Miller
Proceedings of the 1988 ACM sixteenth annual conference on Computer science February 1988
Advances in technology coupled with the inefficiency of the conventional von-Neumann type architecture in handling database systems have motivated the design and implementation of the so called database machines. Unfortunately, a majority of the proposed database machines have neglected to address proper procedures for modification operations. This negligence is partially due to the complexity of the operations and low performance of the database architectures in handling modification opera ...</p> | 80% |
| <p>5 Project GROPEHaptic displays for scientific visualization</p> <p> Frederick P. Brooks , Ming Ouh-Young , James J. Batter , P. Jerome Kilpatrick
ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques September 1990
Volume 24 Issue 4</p> | 77% |
| <p>6 Specialized architectures for structured volume rendering: Scalable interactive volume rendering using off-the-shelf components</p> <p> Santiago Lombeyda , Laurent Moll , Mark Shand , David Breen , Alan Heirich
Proceedings of the IEEE 2001 symposium on parallel and large-data visualization and graphics October 2001
This paper describes an application of a second generation implementation of the Sepia architecture (Sepia-2) to interactive volumetric visualization of large rectilinear scalar fields. By employing pipelined associative blending operators in a sort-last configuration a demonstration system with 8 rendering computers sustains 24 to 28 frames per second while interactively rendering large data volumes</p> | 77% |

(1024x256x256 voxels, and 512x512x512 voxels). We believe interactive performance at these frame ...

7 Making computers disappear: appliance data services

Andrew C. Huang , Benjamin C. Ling , John Barton , Armando Fox

Proceedings of the seventh annual international conference on Mobile computing and networking July 2001

77%

Digital appliances designed to simplify everyday tasks are readily available to end consumers. For example, mobile users can retrieve Web content using handheld devices since content retrieval is well-supported by infrastructure services such as transformational proxies. However, the same type of support is lacking for input-centric devices, those that create content and allow users to share content. This lack of infrastructural support makes input-centric devices hard to use and less useful. ...

8 Teaching computer graphics visual literacy to art and computer science students: advantages, resources and opportunities

Dena Eber , Rosalee Wolfe

ACM SIGGRAPH Computer Graphics May 2000

Volume 34 Issue 2

77%

Although it is a requisite skill for success in industry, visual literacy in graphics is intimidating to computer science and art students. Computer science majors are uneasy about using their eyes to examine images while art students may not have much background in the technical terminology. This column is the second in a two-part series that discusses an interdisciplinary teaching technique that overcomes these obstacles. Part one was published in *Computer Graphics* 34(1) February 2000, ...

9 Introduction & overview of "artificial life"—evolving intelligent agents for modeling & simulation

A. Martin Wildberger

Proceedings of the 28th conference on Winter simulation November 1996

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| 1 Supporting real-time multimedia behaviour in open distributed systems: an approach based on synchronous languages
G. Blair , M. Papathomas , G. Coulson , P. Robin , L. Hazard , J. Stefani , F. Horn
Proceedings of the second ACM international conference on Multimedia October 1994
There is currently considerable interest in developing multimedia applications in open distributed systems. However, it is now becoming clear that existing architectures for open distributed systems do not support the particular requirements of continuous media types such as digital audio and video. This is particularly the case in the important areas of quality of service support and real-time synchronization. This paper presents results from the Sumo project which aims at supporting conti ... | 80% |
| 2 DROL: an object-oriented programming language for distributed real-time systems
Kazunori Takashio , Mario Tokoro
ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications October 1992
Volume 27 Issue 10 | 80% |
| 3 Abstract interaction tools: a language for user interface management systems
Jan Van Den Bos
ACM Transactions on Programming Languages and Systems (TOPLAS) April 1988
Volume 10 Issue 2
A language model is presented for the specification of User Interface Management Systems. The model, called the Abstract Interaction Tool (AIT) model, offers a tree-like hierarchy of interaction objects. Each object represents a subtree and can be considered as an abstract input device containing a syntax-like specification of the required input pattern. The hierarchy of specifications amounts to a system of syntactical productions with multiple control. Terminal nodes of the AIT tree repre ... | 77% |
| 4 Minimum time path planning for robot motion in obstacle strewn environment
A. Meystel , A. Guez , G. Hillel
Proceedings of the 1986 ACM fourteenth annual conference on Computer science February 1986 | 77% |
| 5 MMLite: a highly componentized system architecture
Johannes Helander , Alessandro Forin
Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications September 1998 | 77% |
| 6 Specification-based prototyping for embedded systems
Jeffrey M. Thompson , Mats P. E. Heimdahl , Steven P. Miller
ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering October 1999
Volume 24 Issue 6
Specification of software for safety critical, embedded computer systems has been widely addressed in literature. To achieve the high level of confidence in a specification's correctness necessary in many applications, manual inspections, formal verification, and simulation must be used in concert. Researchers have successfully addressed issues in inspection and verification; however, results in the areas of execution and simulation of specifications have not made as large an impact as desi ... | 77% |

- 7** Coordinating mobile robot group behavior using a model of interaction dynamics 77%
 Dani Goldberg , Maja J. Matarić
Proceedings of the third annual conference on Autonomous Agents April 1999
- 8** Initializing on-line simulations from the state of a distributed system 77%
 Fernando G. Gonzalez , Wayne J. Davis
Proceedings of the 30th conference on Winter simulation December 1998
- 9** Formalizing space shuttle software requirements: four case studies 77%
 Judith Crow , Ben Di Vito
ACM Transactions on Software Engineering and Methodology (TOSEM) July 1998
Volume 7 Issue 3
This article describes four case studies in which requirements for new flight software subsystems on NASA's Space Shuttle were analyzed using mechanically supported formal methods. Three of the studies used standard formal specification and verification techniques, and the fourth used state exploration. These applications illustrate two thesis: (1) formal methods complement conventional requirements analysis processes effectively and (2) formal methods confer benefits even when only selecti ...
- 10** Representing and constructing system specifications using the system entity structure concepts 77%
 Jerzy W. Rozenblit , Bernard P. Zeigler
Proceedings of the 25th conference on Winter simulation December 1993
- 11** Formal methods: state of the art and future directions 77%
 Edmund M. Clarke , Jeannette M. Wing
ACM Computing Surveys (CSUR) December 1996
Volume 28 Issue 4
- 12** Hyper-linked applications and its evolving needs for future simulation capabilities 77%
 Wayne J. Davis , Andrew C. Sieveking , Scott V. Vifquain , Fernando G. Gonzalez , Joseph G. Macro
Proceedings of the 27th conference on Winter simulation December 1995
- 13** Synthesis of software programs for embedded control application 77%
 Massimiliano Chiodo , Paolo Guisto , Attila Jurecska , Luciano Lavagno , Ellen Sentovich , Harry Hsieh , Kei Suzuki , Alberto Sangiovanni-Vincentelli
Proceedings of the 32nd ACM/IEEE conference on Design automation conference January 1995
- 14** Automated repair of complex systems by fault compensation 77%
 George W. Hart , Samir G. Kelekar
IEEE/ACM Transactions on Networking (TON) April 1994
Volume 2 Issue 2
- 15** An old-fashioned recipe for real time 77%
 Martin Abadi , Leslie Lamport
ACM Transactions on Programming Languages and Systems (TOPLAS) September 1994
Volume 16 Issue 5
Traditional methods for specifying and reasoning about concurrent systems work for real-time systems. Using TLA (the temporal logic of actions), we illustrate how they work with the examples of a queue and of a mutual-exclusion protocol. In general, two problems must be addressed: avoiding the real-time programming version of Zeno's paradox, and coping with circularities when composing real-time assumption/guarantee specifications. Their solutions rest on properties of machine closure and r ...
- 16** Interprocedural static analysis of sequencing constraints 77%
 Kurt M. Olender , Leon J. Osterweil
ACM Transactions on Software Engineering and Methodology (TOSEM) January 1992
Volume 1 Issue 1
This paper describes a system that automatically performs static interprocedural sequencing analysis from programmable constraint specifications. We describe the algorithms used for interprocedural analysis, relate the problems arising from the analysis of real-world programs, and show how these difficulties were overcome. Finally, we sketch the architecture of our prototype analysis system (called Cesar) and describe our experiences to date with its use, citing performance and error detect ...

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 Ronald B. Stewart
Proceedings of European design automation conference with EURO-VHDL '95 on EURO-DAC '95 with EURO-VHDL '95 December 1995
- 2** System level modeling and verification: Instruction-based system-level power evaluation of system-on-a-chip 77%
 peripheral cores
Tony D. Givargis , Frank Vahid , Jörg Henkel
Proceedings of the 13th conference on International Symposium on System Synthesis September 2000
Various system-level core-based power evaluation approaches for core types like microprocessors, caches, main memories, and buses, have been proposed in the past. Approaches for other types of components have been based either on the gate-level, register-transfer level, or behavioral-level. We propose a new technique, suitable for a variety of cores like peripheral cores, that is the first to combine gate-level power data with a system-level simulation model written in C++ or Java. For that purp ...
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1 Achieving maximum performance: a method for the verification of interlocked pipeline control logic

Eder, K.; ~~Barrett, G.~~;
Design Automation Conference, 2002. Proceedings. 39th , 2002
Page(s): 135 -140

[\[Abstract\]](#) [\[PDF Full-Text \(658 KB\)\]](#) **IEEE CNF**

2 Decentralized supervisory control with single-bit communications

Ricker, S.L.; Barrett, G.;
American Control Conference, 2001. Proceedings of the 2001 , Volume: 2 , 2001
Page(s): 965 -966 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(176 KB\)\]](#) **IEEE CNF**

3 On the separation of estimation and control in discrete-event systems

Barrett, G.; Lafontaine, S.;
Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Volume: 3 , 2000
Page(s): 2258 -2259 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) **IEEE CNF**

4 Decentralized supervisory control with communicating controllers

Barrett, G.; Lafontaine, S.;
Automatic Control, IEEE Transactions on , Volume: 45 Issue: 9 , Sep 2000
Page(s): 1620 -1638

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) **IEEE JRN**

5 Some issues concerning decentralized supervisory control with communication

Barrett, G.; Lafontaine, S.;
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II. A partially uniform solution for a general wedge angle

Michaeli, A.;

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47 Transition functions for high-frequency diffraction by a curved perfectly conducting wedge. I.

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